CIVIL LEGEND

EXISTING	NEW	
		Buildings
		Roads
		Curb & gutter
		Walks
		Railroad
12 / +77.2	12 / +77.2	Contours / Spot Grade Elevations
		Direction of Drainage
		Culvert
SD	SD	Storm Drain
		Subdrain
		Subdrain Outlet Line
W	W	Water Line
FW	FW	Fire Water Line
S	S	Sanitary Sewer
FM	FM	Force Main
FW	FW	Fire Protection Water Line
WD	WD	Waste Drain
OR	OR	Subdrain Flushing & Observation Riser
		Manhole Self Explanatory Depending on Type of Utility Line
		Curb Inlet
		Area Inlet
		Fire Hydrant
		Gate Valve & Valve Box or Service Stop & Box
PIV	PIV	Post Indicator Valve
DH-2	DH-2	Drill Hole
MW-1	MW-2	Monitoring Well
		Control Point
MT	MT	Property Line Monument

FENCES

EXISTING	NEW	
xx	xx	Chain Link Security
x	x	Barbed Wire
○	●	Woven Wire
□	■	Wood

ARCHITECTURAL LEGEND

- Earth
- Concrete
- Crushed Rock
- Gravel
- Concrete Masonry Units (Plan)
- Concrete Masonry Units (Section)
- As Indicated
- As Indicated
- Brick
- Wood (Rough)
- Wood (Finish)
- Plywood
- Metal
- Gypsum Wallboard } As Indicated
- Plaster } As Indicated
- Rigid Insulation
- Blanket Insulation
- Glass (Elevation)
- Glass (Large Scale Section)
- Wood Stud Partition
- Metal Stud Partition

MECHANICAL LEGEND

HEATING

- HPS — High Pressure Steam
- MPS — Medium Pressure Steam
- LPS — Low Pressure Steam
- HPC — High Pressure Condensate
- MPC — Medium Pressure Condensate
- LPC — Low Pressure Condensate
- PC — Pumped Condensate
- FW — Feed Water
- HTWS — High Temperature Water Supply
- HTWR — High Temperature Water Return
- HWS — Hot Water Heating Supply
- HWR — Hot Water Heating Return
- GHWS — Glycol Hot Water Heating Supply
- GHWR — Glycol Hot Water Heating Return
- BBD — Boiler Blow-Down
- FOG — Fuel Oil Gage Line
- FOS — Fuel Oil Supply
- FOF — Fuel Oil Fill
- FOR — Fuel Oil Return
- FOV — Fuel Oil Tank Vent
- G — Gas
- F & T Trap
- Thermodynamic Trap
- Bucket Trap
- Thermostatic Trap
- Float Trap

MISCELLANEOUS PIPING

- A — Compressed Air
- VAC — Vacuum
- F — Fire Line
- F — Underslab Fire Line
- FC — Foam Concentrate for AFFF Systems

VALVES & FITTINGS

- Globe Valve
- O.S.& Y Gate Valve w/Tamper Switch
- Gate Valve
- Wafer Check Valve
- Hose Gate Valve
- Plug Valve or Balancing Cock
- Needle Valve
- Strainer
- Relief Valve
- Motor Operated Valve
- Temperature Regulating Valve
- Solenoid Valve
- Pressure Reducing Valve
- Float Valve
- Butterfly Valve
- Ball Valve
- Calibrated Bronze Balancing Valve or Automatic Balancing Valve as indicated
- PA — Anchor
- Expansion Joint, Sliding
- Expansion Joint, Bellows
- Elbow Down
- Elbow Up
- Tee Down
- Tee Up
- Cap
- Union
- Pipe Increaser or Decreaser
- Flange
- Blind Flange

DUCTWORK

- 20 x 12 SG / 700 CFM — Supply Grille (SG)
- 20 x 12 RG / 700 CFM — Return (RG) or Exhaust (EG) Grille (Note at Flr. or Clg.)
- 20 x 12 SR / 700 CFM — Supply Register (SR) (A Grille + Integral Vol. Control)
- 20 x 12 GR / 700 CFM — Exhaust or Return Air Inlet Ceiling (Indicate type)
- 20 Ø / 700 CFM — Supply Outlet, Ceiling Round (Type as Specified) Indicate Flow Direction
- 12 x 12 / 700 CFM — Supply Outlet, Ceiling, Rectangular (Type as Specified) Indicate Flow Direction
- Opposed Blade Dampers
- Parallel Blade Dampers
- DG / 12 x 6 — Door Grille
- Unit Heater (Vertical)
- Unit Heater (Horizontal)
- Power or Gravity Roof Ventilator-Exhaust (ERV)
- Power or Gravity Roof Ventilator-Supply (SRV)
- Point of Change in Duct Construction (By Static Pressure Class)
- 20 x 12 — Duct (1st Figure, Side Shown 2nd Figure, Side not Shown)
- Acoustical Lining Duct Dimensions For Net Free Area
- Direction of Flow
- Duct Section (Supply)
- Duct Section (Exhaust or Return)
- R — Inclined Rise (R) or Drop (D) Arrow in Direction of Air Flow
- Transitions: Give Sizes. Note F.O.T. Flat on Top or F.O.B. Flat on Bottom if Applicable
- Standard Branch for Supply & Return (No Splitter)
- Splitter Damper
- VD — Volume Damper Manual Operation
- SEC. / MOD — Automatic Dampers Motor Operated
- OR / AD — Access Door (AD) Access Panel (AP)
- FD / AD — Fire Damper: Show Vertical Pos. Show Horiz. Pos.
- SD / AD — Smoke Damper
- Turning Vanes
- Flexible Duct
- Flexible Connection

PLUMBING

- DCW — Domestic Cold Water
- DHW — Domestic Hot Water
- RDHW — Recirculating Domestic Hot Water
- SAN — Sanitary
- Vent
- ACID — Acid Waste
- ACID — Acid Vent
- WF — Wall Faucet
- WH — Wall Hydrant
- CO — Clean Out
- D — Floor Drain
- CO — Wall Clean Out
- ST — Storm Drain Above Floor
- ST — Storm Drain Below Floor

REFRIGERATION

- RL — Refrigerant Liquid
- RD — Refrigerant Discharge (Hot Gas)
- RS — Refrigerant Suction
- CWS — Chilled Water Supply
- CWR — Chilled Water Return
- C — Condenser Water Supply
- CR — Condenser Water Return
- Refrigerant Strainer
- Thermostatic Expansion Valve
- CHWS — Chilled-Hot Water Supply
- CHWR — Chilled-Hot Water Return
- GCWS — Glycol Chilled Water Supply
- GCWR — Glycol Chilled Water Return

TEMPERATURE CONTROLS

SEE TEMPERATURE CONTROL DRAWINGS FOR ADDITIONAL LEGEND

- T — Thermostat
- OA — Outdoor Air Thermostat
- S — Temperature Sensor
- N — Night Thermostat
- PB — Manual Over-ride Switch
- E — EMCS Sensor
- P — Pressure Sensor
- H — Humidity Sensor

N

N

STANDARD NORTH ARROWS

3 — Section Number

A-5 | A-7 — Sheet Number of Drawing Where Section is Shown •

A-6, A-7, A-8 — Sheet Number of Drawing Where Section is Cut •

Any Additional Drawings Where Section is Cut Will Be Listed Only on Drawing Where Section is Shown

SECTION IDENTIFICATION

• SHEET NUMBERS OMITTED IF SECTION IS CUT AND DETAILED ON SAME DRAWING.

ELEVATION IDENTIFICATION

A / A- — Direction of Sight of Elev. on Plan

A / A- — Sheet Number of Dwg. Where Elev. is Shown •

A / B / C / D — Direction of Sight of Elev. on Plan

NOTE: Location of Dwg. Where Elev. is Shown

ARCHITECTURAL SYMBOLS

- 101 — Room Number
- 1 A — Column Lines Number-Letter (Opposite Dir.)
- 101 — Door Numbers
- A — Window Types
- A — Wall and Partition Types
- Center Line
- Match Line
- X — Direction of Sight of Photograph

GENERAL NOTES:

1. THESE LEGENDS ARE COMPOSED OF STANDARD SYMBOLS AND ARE PERTINENT TO THE CONDITIONS ON THIS SET OF DRAWINGS TO THE EXTENT APPLICABLE.
2. ADDITIONAL LEGENDS AND/OR ANOTHER LEGEND SHEET MAY APPEAR IN THIS SET OF DRAWINGS TO INDICATE SPECIFIC CONDITIONS IN LIEU OF SYMBOLS SHOWN ON THIS SHEET.
3. EXISTING FACILITIES TO BE REMOVED ARE INDICATED BY USE OF THESE SYMBOLS AND HATCHED THUSLY.

ALL SCALES SHOWN ARE BASED ON A STANDARD DRAWING SIZE OF 28" X 40" OR METRIC DRAWING SIZE OF 841mm X 594mm. IF ANY OTHER SIZE DRAWINGS ARE FURNISHED OR PLOTTED THE CONTRACTOR SHALL ADJUST THE SCALES ACCORDINGLY. THE CONTRACTOR SHALL ALSO ADVISE HIS SUB-CONTRACTORS OF THE ABOVE.

US Army Corps of Engineers
Omaha District

Symbol	Description	Date	Approved

Rev.	
Spec. No.	DACA 45
Contract No.	DACA 45
Date: X	
Design file no.	
Plot Scale Ratio:	
Drawing code:	X
Designed by:	
Date:	
Submitted by: RICHARD W. SKUTNY	
Date:	
Chief: Plan & Specs Section	

X X X

LEGEND

Sheet reference number:
D3.02

Seal